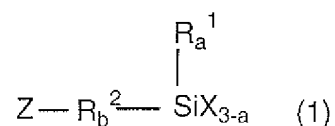


In the Claims

Amend claims 2, 7, 8, 10, 11 and 13, cancel claim 12, and add new claim 16 as follows:

1. (original) A silane terminated polymer obtained by addition reaction between an organic derivative of silicon and the terminal functional groups of linear or branched polymers obtained by the Michael polyaddition reaction of sulphydric acid (H₂S) with organic compounds which have at least two alkenyl double bonds activated by the presence, in the alpha position with respect to each alkylenic bond, of an electronegative group.

2. (currently amended) The silane terminated polymer according to claim 1 in which the organic derivative of silicon has the general formula:



with a=0, 1, 2; b=0, 1 and wherein:

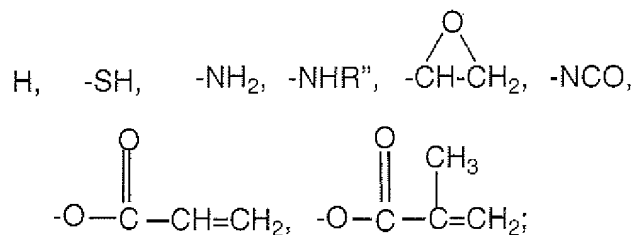
X=selected from the group consisting of halogen, alkoxy, acyloxy, ketoxime, amine, amide and mercaptan radicals;

R¹=monovalent hydrocarbon group;

R²=divalent substituents selected from the group consisting of hydrocarbon, hetero hydrocarbon, amino hydrocarbon radicals;

Z=substituents selected from the group consisting of:

in which R'' represents a monovalent hydrocarbon group.



in which R'' represents a monovalent hydrocarbon group.

3. (original) The silane terminated polymer according to claim 2 in which the organic compounds of silicon of formula (1) are selected from the group consisting of:

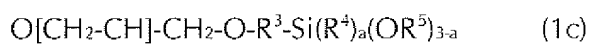
(Isocyanate alkyl)alkoxysilanes:



(Aminoalkyl)alkoxysilanes:



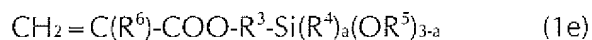
(Glycidoxyalkyl)alkoxysilanes:



(Mercaptoalkyl)alkoxysilanes:



([metha]acralate)alkoxysilanes:



wherein:

R³ = divalent alkyl radical containing from 1 to 3 carbon atoms;

R⁴ and R⁵ = alkyl radicals from 1 to 4 carbon atoms;

$R^6 = H \text{ or } CH_3;$

$a = 0, 1, 2.$

4. (original) A silane terminated polymer according to claim 3 in which the organic compounds of silicon are selected from the group consisting of:

- (3-mercaptopropyl)trimethoxysilane;
- (3-mercaptopropyl)methyldimethoxysilane;
- (3-[metha]acryloxypropyl)trimethoxysilane;
- (3-acryloxypropyl)trimethoxysilane;
- (N-nButyl,3-aminopropyl) trimethoxysilane;
- (N-Ethyl,3-aminoisobutyl)methyldiethoxysilane;
- (3-glycidoxypropyl)trimethoxysilane.

5. (original) The silane terminated polymer according to claim 1 in which the organic compounds useful for Michael polyaddition, having at least two activated double bonds, are selected from the group consisting of:



wherein:

W' = electron-attractor group selected from the group consisting of:

$-SO-$, $-SO_2-$, $-O-$, $-CO-$;

W = electron-attractor group selected from the group consisting of:

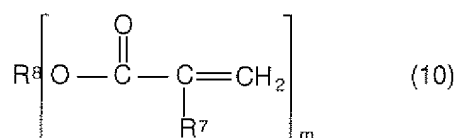
-SO-, -SO₂-, -O-, -CO-, -O-CO;

R⁷ = -H or -CH₃;

Q = divalent, trivalent or tetravalent group selected from the group consisting of hydrocarbon radicals, hetero-hydrocarbon radicals, polyethers, polyesters, which can contain a repeating unit and hence have variable molecular weights.

6. (original) The silane terminated polymer according to claim 5 in which the organic compounds having at least two activated double bonds, are selected from the group consisting of: di-, tri-, tetra-acrylates; di-, tri- and tetra-methacrylates; di-, tri- and tetra-vinylsulphones.

7. (currently amended) The silane terminated polymer according to claim 6 in which the organic compounds useful for Michael polyaddition, having at least two activated double bonds, are composed of organic acrylics and/or methacrylics of general formula:

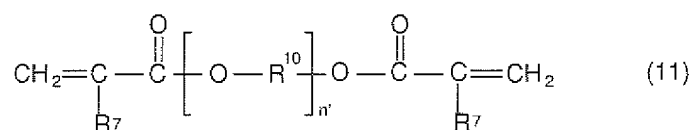


wherein m = 2, 3, 4; R⁷ = H or CH₃; R⁸ is selected from the group consisting of: di-, tri or tetravalent polyethers which consist essentially of chemically combined -OR⁹- units, wherein R⁹ is a divalent alkyl group having from 2 to 4 carbon atoms; di-, tri- or tetra-valent linear or branched aliphatic alkyl radicals, preferably from 1 to 50 carbon atoms; di-, tri- or tetra-valent aromatic radicals, preferably from 6 to 200 carbon atoms; di-, tri- or tetravalent linear or branched aryl radicals, preferably from

6 to 200 carbon atoms; or and R^8 is one or more combinations of said polyethers, alkyl radicals, aromatic radicals, aryl radicals.

8. (currently amended) The silane terminated polymer according to claim 7 in which the di-acrylate and di-methacrylate organic compounds are selected from the group consisting of:

compounds of formula (11)



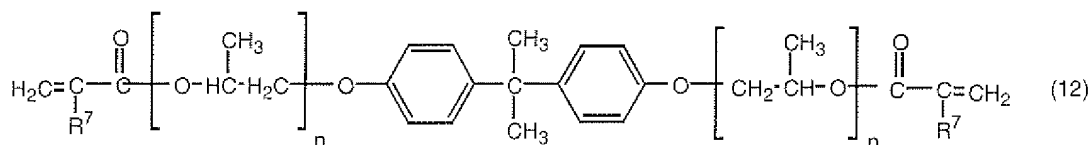
wherein

$R^7 = \text{H}$ or CH_3 ; R^{10} = selected from the group consisting of $-\text{CH}_2-\text{CH}(\text{CH}_3)-$,

$-\text{CH}_2-\text{CH}_2-$, $-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{CH}_2-$; $-\text{CH}_2-\text{CH}(\text{CH}_3)-\text{CH}_2-$; $n' = \text{integer}$

comprised of between 1 and 400, preferably between 1 and 200, still more preferably between 1 and 50;

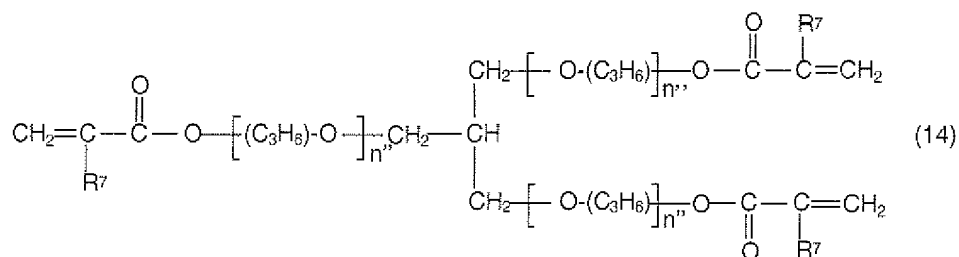
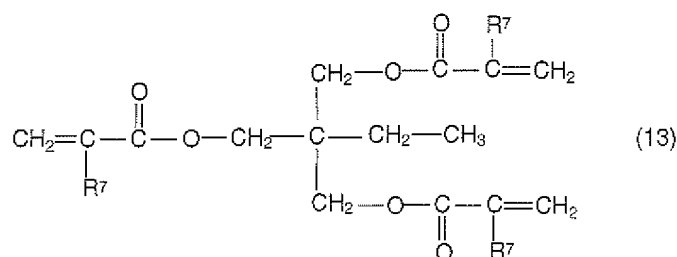
compounds of formula (12):



wherein n is an integer comprised of between 0 and 10 and R^7 is H or CH_3 .

9. (original) The silane terminated polymer according to claim 8 in which the di-acrylate organic compounds are the polyisopropylene glycol diacrylates.

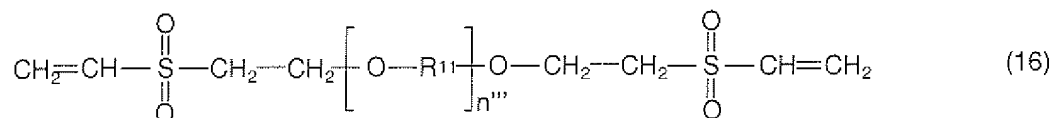
10. (currently amended) The silane terminated polymer according to claim 7 in which the tri-acrylate and tri-methacrylate organic compounds are:



wherein:

$\text{R}^7 = \text{H}$ or CH_3 ; $n' = \text{an integer comprised of between 0 and 400, preferably between 0 and 200, still more preferably between 0 and 50.}$

11. (currently amended) The silane terminated polymer according to claim 6 in which the vinyl-sulphonic organic compounds are:



wherein: R^{11} is selected from the group consisting of $-\text{CH}_2-\text{CH}(\text{CH}_3)-$, $-\text{CH}_2-\text{CH}_2-$, $-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{CH}_2-$; $-\text{CH}_2-\text{CH}(\text{CH}_3)-\text{CH}_2-$; n''' = an integer comprised of between 0 and 400, ~~preferably between 0 and 200, still more preferably between 0 and 50.~~

12. (cancelled)

13. (currently amended) The process according to ~~claim 12~~ claim 16 in which the organic bases are tertiary amines.

14. (original) The process according to claim 13 in which the tertiary amines are selected from the group consisting of: triethylamine, 1,8-diazadicyclo[5.4.0.]undecene-7 (DBU), 1,4-diazadicyclo[2.2.2]actane (DABCO).

15. (original) The process according to claim 14 in which the tertiary amine is 1,8-diazadicyclo[5.4.0.]undecene-7 (DBU).

16. (new) A process for preparing the silane terminated polymer as claimed in claim 1 comprising:

- a) preparing a polyaddition Michael reaction in the presence of an organic base as the catalyst between sulphydric acid (H_2S) and an organic compound having at least two alkylenic double bonds activated by the presence of an electronegative group in the alpha position with respect to each of said alkylene double bonds to produce a linear or branched polymer, and

- b) reacting the linear or branched polymer obtained in step (a) with an organic silicon derivative thereby obtaining said silane terminated polymer.